

GILA RIVER BASIN

09503750 LIMESTONE CANYON NEAR PAULDEN, AZ

LOCATION.--Lat 34°58'48", long 112°24'05", in S¹/₂ sec.31, T.19 N., R.1 W., Yavapai County, Hydrologic Unit 15060202, 1.3 mi upstream from mouth, 1.5 mi west of Drake, and 7.5 mi northeast of Paulden.

DRAINAGE AREA.--14.5 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1969	00-00-69	1,100		1975	11-02-74	125	
1970	09-04-70	10	ES	1976	00-00-76	1.0	ES
1971	08-12-71	4,100		1978	03-01-78	¹ 580	
1972	08-12-72	470		1979	12-18-78	200	
1973	10-07-72	275		1980	02-14-80	500	

¹Highest since 1971.

Magnitude and probability of instantaneous peak flow based on period of record 1969-76, 1978-80

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25† 4%	50† 2%	100† 1%
239	1,020	2,080	4,270	6,670	9,820
Weighted skew	(logs) =	-0.30			
Mean	(logs) =	2.34			
Standard dev.	(logs) =	0.78			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
87.3	8.4	5,310	100	3.0	15.5	1.8	3.8

